



NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

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PAUL J. VANARSDALL

Technical achievements this week at the National Ignition Facility gave good cause for beaming smiles for those in the control room, as NIF surpassed its 10-kilojoule milestone with time and energy to spare.

NIF beams power up to milestone

The National Ignition Facility reached a major milestone this week in activating the first four of its 192 laser beams. Starting the week of Dec. 9, scientists and engineers powered up the laser beams in a series of increasing energy test runs.

At the end of this series of shots these four laser beams generated a total of more than 43 kilojoules of infrared light in a pulse lasting five-bil-

lionths of a second. This corresponds to a power level of more than eight thousand billion watts (eight terawatts), which is about 10 times more power than the entire U.S. electrical generating capacity, but only lasting five-billionths of a second. The energy contained in the 43 kilojoule

See NIF, page 8

HOME campaign sets new mark with more than \$1.4 million raised

For the fifth straight year the HOME campaign has set a new mark by topping \$1 million, and this year raising \$1.4 million for community non-profit agencies and charities.

The annual effort to Help Others More Effectively, or HOME, officially ended Friday, Dec. 13 after a one week extension.

Campaign 2002 marked the 28th year the Laboratory has conducted the effort to raise funds for regional and local non-profit agencies as well as umbrella groups such as the United Way and Tri-Valley Community Fund. Since 1995, LLNL's HOME fund raising efforts have raised more than \$8 million.

"This is a great demonstration of community spirit in difficult times," said Ted Michels, principal deputy associate director for Computation and chair of the 2002 HOME Campaign. "The campaign's success is the result of a lot of hard work by many dedicated people."

Next year's campaign will be sponsored by the Laboratory Services Directorate. Please read the open letter to employees from 2002 HOME Campaign Chair Ted Michels on page 5.

See HOME,
page 5

Laboratory bio facility moves forward

The proposed Biosafety Level 3 Facility at the Laboratory would not significantly affect the environment, according to an environmental assessment released today by the National Nuclear Security Administration, a semi-autonomous agency of the U.S. Department of Energy.

"Based on the analysis in the environmental assessment for the proposed project, NNSA has determined that no significant environmental impacts are expected and the potential consequences from routine operations would be minimal," Camille Yuan-Soo Hoo, Manager of NNSA's Oakland Operations Office which prepared the assessment, announced today. "The proposed facility will allow NNSA to develop technologies to improve domestic defense capabilities and hopefully, to save

lives in the event of a biological attack.

"This facility will be yet another example of Lawrence Livermore National Laboratory's preeminent research portfolio which places the Lab at the forefront of our nation's homeland security efforts regarding first response, and rapid detection technologies," Yuan-Soo Hoo stated.

For additional background information, see the story page 1 of the Friday, July 26, 2002 edition of *Newsline*.

A draft environmental assessment was made available for public comment. Public comments and NNSA responses to those comments are presented in Appendix C of the final environmental assessment which is available

See BSL, page 8

NNSA announces streamlining effort

The Department of Energy's National Nuclear Security Administration moves today to a new organizational structure that eliminates a layer of management and sets the agency on a course to achieve a 20 percent reduction in federal personnel by the end of fiscal year 2004 (FY '04).

NNSA Acting Administrator Linton Brooks said Tuesday that the reorganization follows the principles of the President's Management Agenda, which strives to improve government through performance and results.

See NNSA, page 8



Going with
the flow

— Page 4



Dreaming of
a bright Christmas

— Page 7

work & life
BALANCE



— Insert



LAB COMMUNITY NEWS

Weekly Calendar

No Technical Meeting Calendar items were submitted this week.

Monday
23

Due to the Christmas and New Year Holidays, the **South Cafe** will be closed today through Jan. 3. The Central and West Cafes will remain open with limited service, including the grill, salad bar and self-service deli stations. The Central Cafe will also feature the menutainment station and the Central Café will feature the Villa Fresca station. The Java Wave will be closed at the South Cafe but will remain open in the Central Cafe. The Site 300 Cafe (grill station) will be open today and Dec. 30.

...

A **calendar** featuring 12 officers from the Protective Force Division will be on sale this week at the UNCLE Credit Union. All proceeds will go directly to the American Cancer Society Breast Cancer Research Fund.

Tuesday
24

The **Laboratory** is closed today and Wednesday for Christmas. Happy Holidays.

Tuesday
31

The **Lab** is closed today and Wednesday for New Year's.

Up
Coming

Russian Classes begin in January. To register for the winter quarter, please refer to the on-line course catalog, https://www-ais.llnl.gov/llnl_only/docs/hr/catalog/, or contact Marissa Mertes, 2-4842.

The Energy and Environment Directorate is making a **call for pre-proposals** for new carbon dioxide separation technology. These are due COB January 15. Please see <http://en-env-r.llnl.gov/proposals/co2/> for details.

IN RETIREMENT

Ted Midtaune

A retirement luncheon for Ted Midtaune is planned for Jan. 9 at the Hilton Garden Inn in Livermore.

Midtaune is a senior scientific associate in the Measurement Verification and Control group in the Materials Management Section. He has worked at the Lab for 19 years. During his career, Midtaune worked in the Nova Program as a mech tech and supported the Plutonium Facility as a scientific associate for 10 years.

The deadline to RSVP for the luncheon is Jan. 6. The cost is \$25. RSVP to Joan Accardo, 2-9871, or Lourdes Linhart, 3-9664.

Newsline takes a holiday

Due to the Christmas holiday, **Newsline** will not be published next week or the week of Dec. 30. Classified ads will be available online.

RETIREES' CORNER

By Bob Becker

LLNL RETIREE

This probably will be the last retirees' column. The reason for discontinuing the column is the lack of input. It is almost impossible to write the column unless retirees let me know about their activities. I do want to thank those retirees who have contacted me over the many years. In order to tie up a few loose ends, I will report on the activities of a few individuals who have communicated with me.

...

Edgar and Janet Peck (Chemistry) still live in Rocklin, Ca. and remain very active in their church. A high point of the year was a 12-day vacation in August to Oregon, Washington and British Columbia. Their e-mail address is epeck@2xtreme.net. I'm sure that they would love to hear from some of their old associates.

...

Nancy and Gordon Repp want you to know that because of postal service "administrative" procedures, their address has changed from Walnut Creek to Lafayette (1521 Sunset Loop). So if

you have had a Christmas card returned, you should know that they are still in the same house. This year they took three trips, including ones to the Galapagos, Quebec and Hawaii. They were very impressed with the Polaris (Lindblad ship that holds 80 passengers).

...

John McClure (G Division) has lived in Santa Fe, New Mexico for 10 years and he thinks that it is really great. They live at 200 feet surrounded by pinon and cedar trees. The temperatures get into the '90s in the summer, but it is so dry it is quite comfortable. They have very little snow in the winter. There are over 14 museums in Santa Fe. They enjoy visitors: 10 Ute Circle, Santa Fe, NM, 87505. Email: archan@Rt66.com.

...

Keith Mosely (lilswvak@charter.net) wants to know if Nort Croft (Human Resources) lives in Ashland, Oregon. Does anyone have an address?

...

Mike MacCracken, after 34 years with the Lab and some time in Washington D.C., has retired. He lives in Bethesda, Md., 20814.

Curb fire danger and your tree by Dec. 23

LLNL gardeners will pick up office Christmas trees for recycling over the holidays.

Discarded trees will be chipped and used as a soil amendment around the site. Hazards Control requests that holiday trees be removed from LLNL facilities by the close of business Monday, Dec. 23 — the last working day prior to the Christmas holiday — to avoid the fire hazard posed by dried out trees.

Trees for pick up need to be placed at the nearest street curbside. Trees cannot be picked up from parking lots, pathways, alleys and areas that are



difficult to access. Discarded trees will be picked up after the holiday. Please remove all ornaments, wrapping paper and as much tinsel as possible.

With your help, the holiday tree pick up will reduce LLNL disposal costs, conserve resources, assist in meeting UC performance measure goals regarding waste diversion, and provide a usable end product for landscaping at LLNL.

Employees with questions, suggestions or ideas regarding waste diversion at LLNL are encouraged to call the Earth Hotline (E-ARTH or 3-2784).

IN MEMORIAM

Robert Kershaw

Robert P. Kershaw, a senior metallographer, died Nov. 16, at his home in Alameda. He was 60.

Kershaw worked at the Lab for nearly 25 years as a metallographer, preparing and analyzing samples that included mission relevant parts, welds and test specimens, ancient steels and other artifacts, bone and teeth, and other materials. Colleague Lou Terminello said Kershaw was well appreciated and regarded for his pride and care in all aspects of metallography, his broad expertise and knowledge, for mentoring others, and for jokes and humor.

Kershaw is survived by his wife, Jan.

Services were held in Richboro, Pa. Contributions in his memory may be made to ALS Therapy Development Foundation, 44 Glen Ave., Newton, Mass., 02459

Henry Edward Schaefer

Henry Edward Schaefer, a LLNL retiree, died at home after a short illness on November 7. He was eighty years old.

He was a resident of Livermore for over 30 years. In 1942 he enlisted in the Marine Corps and served during World War II in the Gilbert, Marshall and Mariana Islands in the South Pacific. A graduate of Tulane University in accounting, he was employed as an accountant in the Finance Department of the Laboratory for over 31 years, retiring in 1988. After retiring from full time employment, he returned to work part time until 1996 as a Laboratory associate in the Finance

Department.

While working as a Laboratory associate, he joined the Finance Department's softball team and played for several years. He was the only retiree on the team. After full time retirement, he joined a health club and worked out at the club most days of the week, usually running over four miles on the treadmill. He also enjoyed ballroom dancing lessons. He loved and lived for his family.

He is survived by his wife, June, of Livermore; his daughter, Gael Schaefer, of New York City; his son, Don, of Oakland; and his granddaughter, Erica Schaefer, of Hope Valley, Rhode Island.

Memorial gifts may be sent to the American Cancer Society, 7000 Village Parkway, Suite E, Dublin, CA 94568.

Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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NEWS YOU CAN USE



Conference looks to computers to address aerodynamics

Leading researchers from around the world in the aerodynamic drag of heavy vehicles met in Monterey recently to discuss how computer simulation and experimental techniques could be used to design more fuel efficient trucks, buses and trains.

Held under the title “The Aerodynamics of Heavy Vehicles: Trucks, Buses, and Trains,” the DOE-sponsored conference brought together 90 of the world’s leading scientists and engineers from national labs, academia and industry, including truck manufacturers.

“This is an important national security and energy issue,” said Rose McCallen, lead on the DOE Heavy Vehicle Aerodynamics Project for all seven organizations in the consortium. “Statisticians predict that by the year 2050, the world rate of fuel consumption will exceed the rate of production. Our nation’s dependence on oil is a national security issue, and minimizing vehicle aerodynamic drag will significantly reduce the dependence on foreign oil resources.”

For example, a Class 8 tractor-trailer traveling at highway speeds uses more than 50 percent of its fuel in overcoming aerodynamic drag, and aerodynamic drag accounts for 80 percent of the fuel consumption for the high speed trains being used in Europe and Japan, McCallen said.

Conference topics included comparison of computational fluid dynamics calculations using both steady and un-steady Reynolds-averaged Navier-Stokes, Large-Eddy Simulation, and Detached Eddy Simulation techniques

and experimental data obtained from the DOE-sponsored wind tunnel experiments.

McCallen said that it was clear from the discussion that the DOE program, led by the Lab’s Energy & Environmental Directorate, with a consortium of participants from USC, Caltech, Sandia, NASA-Ames, and Argonne National Laboratory combining state-of-the art, massively parallel computer techniques and new turbulence models with carefully instrumented wind-tunnel results, “are making great progress.”

Other Livermore researchers participating in the conference were: Kambiz Salari, LLNL Lead on the DOE project; Jason Ortega; and Helen Magann, administrator for the project.

The aerodynamics of heavy vehicles is also of great interest to scientists and engineers because of the research and development challenge it represents.

“Heavy vehicle aerodynamics poses a challenge that exceeds the challenges of aircraft and



At the conference, Jim Ross of NASA Ames, Rose McCallen of the Lab and Fred Broward of USC (from left) received appreciation gifts from the United Engineering Foundation.

automobile aerodynamics because of the boxed trailer shape required for transport of cargo and the non-integrated design of a tractor and trailer with a drag producing gap,” McCallen said. “This is very difficult compared to the fully integrated and more easily streamlined designs of planes and cars. Improvements in design require sophisticated experiments in large wind tunnels and computational methods with lots of computer power.”

For more information on the consortium effort, check the Web: <http://en-env.llnl.gov/aerodrag/>, or for the conference: <http://www.engfnd.org/2aa.html>.

Geoengineering sheds light on improved ecosystem

By Anne M. Stark

NEWSLINE STAFF WRITER

Using models that simulate the interaction between global climate and land ecosystems, Lab atmospheric scientists have shown that compensating for the carbon dioxide “greenhouse effect” by decreasing the amount of sunlight reaching the planet (geoengineering) could create a more vigorous ecosystem while helping to curb global warming.

The study suggests that planetary-scale engineering projects to lessen the amount of solar radiation reaching the Earth’s surface will likely do little to prevent the effects of increased greenhouse gases on the terrestrial biosphere. In fact, plants could experience growth spurts.

In a paper entitled: “Impact of Geoengineering Schemes on the Terrestrial Biosphere,” researchers Bala Govindasamy, Starley Thompson, Philip Duffy, Ken Caldeira and University of Wisconsin collaborator Christine Delire modeled the impact on Earth’s land biosphere due to various schemes that would reduce the amount of sunlight reaching the planet’s surface. The research appears in the Nov. 26 online edition of Geophysical Research Letters.

“Our models show plant life getting a big boost from the carbon dioxide fertilization when atmospheric CO2 levels are doubled due to anthropogenic fossil fuel emissions,” Govindasamy said. “We noticed that in a CO2-enriched world, the terrestrial biosphere was largely unaffected by decreases in surface solar radiation by a couple of percentage points through various geoengineering schemes.”

In earlier research, scientists have maintained that greenhouse gases emitted from the burning of fossil fuels are one of the largest sources of global warming because they cause an increase in the

amount of carbon dioxide in the atmosphere. Methods to reduce atmospheric carbon dioxide vary from storing it in the deep ocean to reducing the amount of sunlight reaching the planet that could largely counteract the warming influence of more greenhouse gases.

“Critics suggested that ‘turning down the sun’ could harm terrestrial ecosystems that depend on light for photosynthesis, but this new work shows that a change in solar flux to stabilize climate would have little effect on the terrestrial biosphere,” Caldeira said. “In fact, turning down the sun a bit reduces evaporation and therefore gives the plants more water for photosynthesis so that they may actually grow better in a geoengineered world than they do today.”

The researchers, however, strongly caution against adopting any geoengineering scheme because “there are many reasons why geoengineer-

ing is not a preferred option for climate stabilization.” Among these are the risks of system failure and unpredictable responses of Earth’s climate system to large-scale human intervention ecosystems.

“First, geoengineering schemes impose a variety of technical, political and economic challenges. International consensus to develop and maintain the schemes would be difficult. Failure of a scheme could be catastrophic,” said Govindasamy said. “CO2 fertilization could impact ecosystem goods and services not represented by our land biosphere model, such as plant species abundance and competition, habitat loss, biodiversity and other disturbances.”

The LLNL-led group used a general circulation model coupled to a model of land vegetation to conclude that the change in solar flux needed to stabilize climate would have little effect on net primary productivity in land.



Giving to Others

Engineering’s Holiday Card Fund raised more than \$3,700 for the Senior Services Center, which will buy food certificates for seniors. Shown here from left to right, Ann Tyler, Maureen Gandara Swinbank of the LARPD, Maureen Midkiff, and Lorna Naugle.



NEWS YOU CAN USE

Lab completes assessment on groundwater supplies

Laboratory environmental scientists have completed an assessment of the likelihood of Livermore Valley public groundwater supplies to become contaminated from surface activities such as construction, agriculture or leaking underground fuel storage tanks. The study found that the groundwater in the western portion of the Livermore-Amador Valley Groundwater Basin is protected by a clay barrier, while groundwater in the eastern portion of the basin is more vulnerable to surface activities. This study is part of an on-going State-wide groundwater vulnerability assessment sponsored by the State Water Resources Control Board.

The work, which is being managed by the Environmental Restoration Division of the Environmental Protection Department, is a collaboration with Chemistry and Materials Science and the Energy and Environment Directorate.

Dave Rice, an EPD environmental scientist and project manager, said that State and local water agencies have long recognized the importance of public outreach and education in the effort to preserve and protect groundwater drinking supplies. The State Water Resources Control Board, Zone 7 Water Agency, the high school students and teachers in the Tri-Valley Regional Occupation Program and the Laboratory have been working together to help the public better understand groundwater issues and effectively communicate the importance of groundwater protection to the general public.

Sensitive Methods

Using extraordinarily sensitive laboratory methods, the assessment examined the presence of trace concentrations of compounds, and a technique that measures groundwater age, to assess groundwater vulnerability from surface activities. The compounds tested include the gasoline additive MTBE, organic byproducts of drinking water chlorination and several volatile organic compounds used as solvents and de-greasing agents. These compounds are commonly associated with surface activities throughout the State. When measured using the study's sensitive methods, these compounds can be detected at concentrations 1000 times lower than drinking water limits.

According to Jean Moran, the Lead Project Scientist, the western part of the Livermore-Amador Valley Groundwater Basin, roughly under Pleasanton, is less likely to be impacted from surface activities than the eastern portion, roughly under Livermore. A significantly greater volume of groundwater for public supply is drawn from the western side of the underground aquifer which forms the basin.

Moran said the western portion of the basin has layers of clay above it that restrict water

movement and impede the migration of compounds associated with industrial and other human activities. While extensive clay layers have been mapped in the western portion of the basin, there previously has been uncertainty regarding how effective they are in protecting groundwater. The effectiveness of the clay barrier in the western portion of the basin is the most important initial conclusion of this study. Geologic materials above the eastern portion are more porous sands and gravels that allow freer movement of water and surface contaminants to the deeper parts of the basin.

The vulnerability of the groundwater basin to surface activity impacts was assessed by the Lab using two different methods.

The first method analyzed extremely low concentrations of volatile organic compounds (VOCs), which serve as environmental tracers. These compounds are found almost everywhere at the earth's surface due to such common human activities as operating a gasoline-fueled automobile, cleaning or de-greasing metal parts and machines, dry-cleaning clothes or chlorinating drinking water.

Below regulatory standards

Most of the VOC concentrations detected were almost 1000 times below regulatory standards for drinking water. Furthermore, no new areas of groundwater contamination above regulatory limits were found.

The most frequently detected compounds found were the byproducts of water chlorination. These compounds were found in 18 of the 20 wells tested. Chlorination is often performed as the groundwater is extracted and is intended to disinfect drinking water.

MTBE and two other VOCs, PCE and TCE, were found in 7, 6 and 3 of the public drinking water wells respectively. MTBE was found at much lower concentrations than those seen in surface water bodies and was far below regulatory limits. PCE, which occurs frequently and at higher concentrations throughout the eastern basin, represents the most serious threat overall to the groundwater resource. Sources of PCE include dry cleaning operations and industrial fabrication activities.

The second method of analysis used was a radioactive isotope age-dating technique that measures the length of time that water has been under the ground.

Using tritium, a radioactive isotope of hydrogen that occurs at an extremely low abundance in water molecules, and its decay product, heli-



The Lab's Jean Moran shows a group of Livermore High School students how to collect and test water samples.

um-3, Lab scientists found that wells in the eastern part of the groundwater basin produced relatively young water that left the surface 15 to 20 years ago, on average.

Ground water penetration

Groundwater ages from the western end of the basin were on average at least twice as old. In fact, the analysis of the groundwater age distributions showed that a major fraction of the groundwater pumped from wells on the western side of the basin recharged the aquifer before about 1950. A collection of groundwater ages helps to define groundwater flow patterns and rates, which are critical to understanding the distribution of tracer compounds, and thus environmental and public health impacts.

The low-level organic compound analyses and the age-dating of the well water samples together confirm that surface water takes longer to enter the groundwater basin in the western end of the Livermore-Amador Valley than at the eastern end. A layer of clay protects the western end of the basin. The eastern end has porous gravel layers above it that allow surface water to more readily enter the aquifer. The faster water travels from the surface to the underground aquifer, the easier it is for surface activities to affect groundwater.

Additional information is available at <http://www.swrcb.ca.gov/cwphome/land/gama/webpages/gamahome.htm>.

ISM X-FILES / by John Maduell

A Driving Hazard

This scenario was taken from Lab Lessons Learned files.

Blinded by the morning sun, a motorist narrowly missed a pedestrian crossing East Avenue

Fortunately, no one was injured.

What Happened

Stepping off a bus, a passenger entered a crosswalk, assuming oncoming traffic would stop. He had to jump out of the way to avoid an automobile traveling into the morning sun.

Be aware of your surroundings

What Was Learned

Additional glare and low angle of the morning sun can severely limit a motorist's ability to spot objects in the roadway. Although the pedestrian may have had the legal right-of-way, he should have been more alert to traffic.

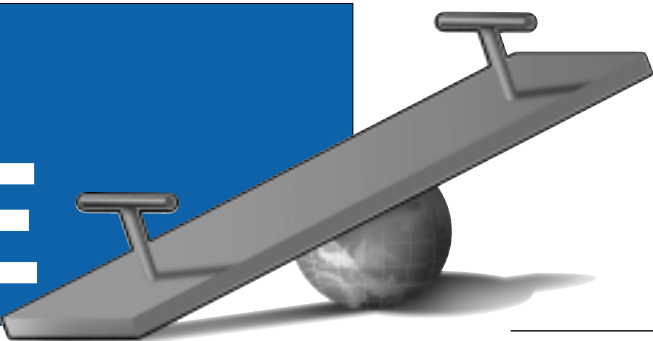
Recommended Action

- Motorists should be especially careful when driving into the sun.
- Wear polarized sunglasses and keep the front windshield clean. Dirt on windows scatters light, reducing one's ability to see things clearly.
- When behind the wheel, be alert when passing buses that are slowing down or have stopped.
- When crossing a street, look both ways. Do not assume you have been seen by a driver.
- Do not leave a curb suddenly and enter the path of an oncoming vehicle.

SLY the Safety Fox

Sponsored by the SSEP Directorate

work & life
BALANCE



A monthly supplement provided to employees as part of Survey Action Team Initiatives.

Apprenticeship program revived



John Fry (right) of the Manufacturing and Materials Engineering Division, welcomes new machine apprentices Jason Carroll (left) and Paul Alexander (center).

JULIE KORHUMMEL/NEWSLINE

By Elizabeth Campos Rajs
NEWSLINE STAFF WRITER

For most new employees at the Lab, the first week on the job is spent in relative obscurity — attending new staff orientation, meeting co-workers and getting acquainted with Lab culture.

But things started out a bit differently for Paul Alexander and Jason Carroll. Their third day on the job, they were the center of attention as the Manufacturing & Materials Engineering Division hosted a morning reception in their honor earlier this month. At least 100 people turned out to welcome the two young men to the division and celebrate the much-anticipated return of the machinist apprentice program in MMED.

“This is pretty neat for us. They are the first two apprentices hired in 11 or 12 years,” said Jeff Williams, who heads Mechanical Engineering. “We’re very happy this program is returning.”

Hugh Watling, MMED leader, added, “It’s emotional to some of us — it’s that big of a deal.”

He assured Alexander and Carroll, who were chosen out of 150 applicants, that everyone in the division is behind them and is there to help them be successful.

“The program has a rich tradition here at Livermore and bringing it back is a status of the trade,” said Mike Prokosch, superintendent for MMED. “It gives us the opportunity to pass on

APPRENTICE, See WORK LIFE INSERT page 4

Laboratory to celebrate Martin Luther King Jr.’s life

A celebration in honor of Martin Luther King Jr.’s birthday, featuring essay readings, a keynote address and a musical performance, is planned for Thursday, Jan. 16, from 1:15-3:30 p.m. in the Bldg. 123 auditorium. A reception will follow in the West Cafeteria.

The theme of this year’s event is “One Nation; Indivisible.”

As in past years, two winners of the Martin Luther King Essay Contest Scholarship will be selected to read their essays. The title of this year’s essay contest, chosen by Lab Executive Officer Ron Cochran, is “If Dr. King Were President Today, How Would He Lead Our Nation?” The contest is open to high school seniors throughout the Bay Area in five counties.

The winning essays will be chosen by a scholarship committee that includes Cochran and Associate Directors Jan Tulk, Dona Crawford and Tomas Diaz de la Rubia. The writers of the winning essays each will receive \$750 scholarship awards.

In keeping with the 50th anniversary, the keynote speaker is James Evans, a chemist with technical expertise in the chemistry of the heavy elements. Evans, who retired from the Lab in 1993 after 32 years here, is the co-discoverer of heavy element isotopes 256Fm, 258Fm, 256Es, and 255Cf. He was also a member of the

MLK, See WORK LIFE INSERT page 4

Steve Goodman takes helm as general manager of LLESA

Steve Goodman, a Livermore native who has worked in the recreation field for more than 20 years, has been hired as the new general manager of LLESA. He started Monday.



Steve Goodman

Goodman takes over at the helm of the Lab’s employee services association from Ken Giannotti, who retired in October.

As general manager, Goodman will be responsible for providing work/life services for employees, such as child

GOODMAN, See WORK LIFE INSERT page 4

Saving time through on-site shipping

Ron Lee of HEAF Division adds his package to the heap ready for UPS pick up. Lee, who says his wife is really grateful for the service, is one of several hundred Lab employees who have sent packages this month through the Time Zone’s UPS shipping service. Since Dec. 2, more than 500 packages have been sent through the Time Zone and half of those went out this week alone.



ELIZABETH CAMPOS RAJS/NEWSLINE

JRS AND *Late December to January 2003* in between



modified
staffed

25 WEDNESDAY

The Lab is closed today.

Happy holidays

1 WEDNESDAY

The Lab is closed today.

2 THURSDAY

It's back to business for the Time Zone and LLESA offices, which reopen from the holiday break today.

3 FRIDAY

The orientation carpet is rolled out for new staffers today from 8 a.m. to noon at the New Staff Orientation, Bldg. 361 auditorium.

8 WEDNESDAY

The new year brings with it a new opportunity to invest in your future. A Fidelity Investments representative will be on-site to meet with employees. Call 1-800-642-7131 for an appointment.



15 WEDNESDAY

For a creative change of pace, drop by the Rubber Stamping Networking Group, which meets today at noon in Bldg. 571, room 1301.

16 THURSDAY

A celebration in honor of Martin Luther King Jr.'s birthday, featuring essay readings, a keynote address and a musical performance, is planned for 1:15-3:30 p.m. in the Bldg. 123 auditorium. A reception will follow in the West Cafeteria.

17 THURSDAY

Heading to the mountains for the three-day weekend? LLESA's Time Zone can give you a lift with discount tickets to NorthStar, Sierra at Tahoe and Kirkwood.

22 WEDNESDAY

Discover how to get what you want by attending the "Communicating for Results" class from 8:15 a.m. – 4:30 p.m. in the Trailer 1879 Training Center.

23 THURSDAY

Explore the mysteries of our past when David M. Seaborg, son of Nobel-prize winning scientist Glenn Seaborg, discusses "The Current Status of Evolutionary Biology," at the Spotlight on Science Community Lecture Series 7 p.m. at Livermore High School, 600 Maple St., Livermore. Free!

over the joys of learning  



31 FRIDAY

Today is the last day of LLESA's discount magazine program. See llesa.llnl.gov for details.

The future is yours. Claim it by finding out about your 403(b) benefits at 12:15 p.m. in Bldg. 571, room 2301.

Laboratory honored for Engineering’s job outreach efforts

The Laboratory was named “Employer of the Year” by the Bay Area Job Developers Consortium for Plant Engineering’s job outreach efforts. Plant Engineering, in partnership with Staffing & Employment, participated in numerous job fairs, provided on-site tours, made presentations to various community based organizations and community colleges in order to fill more than 300 job openings this past year. A concerted effort was made to hire people from neighboring communities. On hand to accept the award for the Lab were , from left, Ed Helkenn, Plant Engineering department head; Tommy Smith, deputy associate director Administration and Human Resources; Chris Nishida, employment representative; and Howard Ellis, one of the recent hires through the outreach efforts. Steve Hunt, associate director for Laboratory Services and Helkenn commissioned a Plant Engineering recruitment team, lead by Plant Engineering supervisor Jim Smith, to work closely with Nishida and the consortium to increase awareness about job opportunities in Plant Engineering at the Laboratory.



JIM SMITH

MLK

Continued from Work Life Insert, page 1

Director’s Office serving as the deputy associate director for Diversity and Equal Opportunity.

Evans is now the founder of Work-force Concepts Inc., a company that specializes in developing efficient work-forces for tomorrow, with emphasis on skill development for managing and working in a multicultural environment.

The celebration will also feature a performance by the Berkeley Black

Repertory Group Theatre, which will perform a skit that will include dance and music. The Black Repertory Group is a multicultural group that started as a drama program in 1964 at a local Bay Area church.

It is the oldest Black Folk Arts community theater in the United States. In addition to the cultural arts center theater, the group also offers a youth theater and summer arts



James Evans

camp, School of the Arts, an art gallery and an innovative program called “Music In The Community,” taught by internationally noted jazz/blues vocalist and music historian Faye Carol.

The Employee Network Groups will give a final colorful presentation representing the theme “One Nation; Indivisible.”

GOODMAN

Continued from Work Life Insert, page 1

care, exercise classes and the swim center. He is also responsible for the Time Zone and the employee center, which coordinates employee networking groups, blood drives and special events.

“There are a number of exciting things on the horizon with work/life issues,” Goodman said. “I’m excited to be taking on new challenges at the Laborato-

ry and to have the opportunity to serve Lab employees.”

Goodman is no stranger to the Lab. His wife, Sheryl, has worked at the Lab for 18 years, his father is a retiree and he has come to know many Lab employees who participate in adult recreation leagues through LARPD.

Prior to joining the Lab, Goodman worked more than 17 years with the Livermore Area Recreation and Park District where he was a senior recreation supervisor. He oversaw aquatics programming,

adult social daycare and senior activities. He also helped organize adult sports groups and special events.

“I have done almost everything related to recreation,” Goodman said.

He also worked at the City of San Mateo Recreation Department for seven years, serving in a variety of recreation positions.

Goodman received a bachelor’s degree in recreation with honors from CSU Hayward and is a lifelong resident of Livermore.

APPRENTICE

Continued from Work Life Insert, page 1

our skills to the next generation.”

The machinist apprentice program, which is a comprehensive four-year training program, was halted in the early ‘90s when there was a slow-down in business, Williams said. The division had tried unsuccessfully to restart the program a few years ago, but last year’s employee survey proved to be the catalyst for bringing the program back.

A Survey Action Team was assigned to address issues identified by 800- and 900-series employees and one of the team’s major recommendations was to bring back the apprentice program.

Jens Mahler, acting AD for Engineering, co-chaired that SAT with Lab Services AD Steve Hunt and they invited several 800- and 900-series employees to participate and offer input on the issues

identified in the survey.

“The apprentice program was very important to them. It’s a way of transferring their skills, knowledge and ability to new people,” Mahler said. “Steve and I took the recommendation forward and had no problem getting it funded. This was a no-brainer once we realized how important it was to the employees.”

The machinist apprentice program was started shortly after the Lab began, Watling noted.

“In 1954, it was an informal program with about 20 people. One or two of your fathers were in it,” Watling said in addressing the crowd at the morning reception. “Over the years, 135 people graduated from the program. Most of our current supervisors went through it.”

For the next four years, Alexander and Carroll will go through a rigorous program that includes hands-on training as well as additional classes at Las Positas

College.

Alexander, who had been working in metal fabrication before joining the Laboratory, said he was very happy to be part of the program. “This is the best job in the world. I’m very excited to be here.”

Carroll, who admitted to being a bit overwhelmed at all the attention on his third day, said he had been trying to get a job at the Lab for a long time. “HR probably got tired of seeing my resume,” he laughed.

He had been working in a machine shop prior to joining the Lab and was most looking forward to all the mentoring he will receive from the Lab’s experts in the field.

“In the job shop environment, you don’t get that,” he said. “Already, everyone has been coming over and shaking hands and offering to help. It’s a completely different environment here.”

THE HOME PAGE



An Open Letter to the LLNL Community

From Ted Michels, HOME Campaign 2002 Chair



The HOME (Helping Others More Effectively) Campaign 2002 has set new records for employee generosity and good will. Not only did we set a new record for donations, but the Week of Caring team also added one more service event to its crowded calendar.

The preliminary total for HOME donations through December 18 is \$1,464,404. Together, Lab employees and Johnson Control contract staffers reached a little deeper this year to exceed our goal of \$1.4 million in one-time and payroll-deduction donations. Thank you for helping the Lab to help so many others. Your donations will work throughout the year to improve the lives of thousands in nearby communities.

For closeout information on the HOME Campaign 2002, see the HOME Website at <http://www-r.llnl.gov/home2002/> Next year's HOME Campaign will be sponsored the Laboratory Services Directorate. Look for news on HOME 2003 to begin appearing next summer.



HOME contributions as of Dec. 18: \$1,464,404

Directorate	Total Employees	No. of Contributions	\$ Donated	% Participation
Director's Office	84	66	\$45,535	50%
Energy & Environment	342	147	\$56,547	43%
Computation	1050	475	\$206,604	45%
Chemistry & Material Science	523	227	\$106,318	43%
Safety, Security & Environmental Protection	1110	404	\$122,319	36%
Physics & Advanced Technologies	418	232	\$98,387	56%
Defense & Nuclear Technologies	432	199	\$88,476	46%
Laboratory Services	1515	609	\$145,211	40%
Engineering	2292	808	\$357,867	35%
NIF Programs	213	136	\$50,850	64%
CFO	100	75	\$17,556	75%
NAI	266	139	\$66,475	52%
Administration & Human Resources	310	141	\$34,426	45%
Biology & Biotechnology Research Program	251	89	\$20,568	35%
Supplemental Labor	721	122	\$43,908	15%
Others	13	13	\$2,155	100%
TOTAL	8992	3894	\$1,464,404	43%

Study raises concerns over herbal tonics, dietary carcinogens

By Steve Wampler
NEWSLINE STAFF WRITER

A new study by Lab researchers raises concerns about interactions between dietary carcinogens and herbal tonics used as complementary or alternative therapy by cancer patients.

The research work, done by scientists in the Biology and Biotechnology Research Program, was presented Dec. 17 during the 42nd annual meeting of the American Society for Cell Biology, or ASCB, at the Moscone Center in San Francisco.

A six-person team of LLNL biomedical scientists, headed by lead author Kris Kulp, conducted the research with collaborator and former LLNL employee Michelle Bennett of the National Cancer Institute.

The Livermore research study was one of 13 accepted for publication in the ASCB press book out of the 1,300 papers submitted to the organization's mini-symposium programs.

Growth in many breast cancers is dependent upon the presence of estrogen, which stimulates cells to grow. As a result, any factor that activates cell growth that is normally controlled by estrogen is potentially important for cancer development or treatment. Livermore researchers studied two

herbal medicines that are taken by women with breast cancer in addition to, or instead of, standard chemotherapy.

Both herbal treatments are available at health food stores and on the Internet and are often recommended to women with breast cancer by word-of-mouth. The Livermore team conducted their experiments with living cells or cell cultures from human tumors.

When each herbal medicine was added individually to the cancer cells, the alternative treatments stimulated the growth of breast cancer cells as much as two-fold higher than untreated cells and were as potent as estrogen in activating the estrogen receptors.

The Livermore study suggests that an herbal tonic used as alternative therapy for breast cancer contains active ingredients that may interact with a naturally-occurring, mutation-inducing compound found in well-cooked meats.

Together, these particular herbal teas and

overcooked meat may be the cause of sharply-increased activity of cellular estrogen receptors in breast cancer cells, and be potentially harmful to breast cancer patients.

The researchers also studied the effects of a naturally-occurring mutation-inducing compound found in overcooked muscle meats, such as steak and chicken, known as PhIP (2-amino-1-methyl-6-phenylimidazo<4,5-b> pyridin). Exposure to PhIP alone is known to alter DNA in mammalian cells, and causes breast and prostate tumor formation in rats. In human studies, the consumption of overcooked meat is linked to increased breast cancer risk in women. Besides altering DNA, PhIP also appears to increase cell division.

When breast cancer cells were incubated with PhIP and one particular herbal treatment, the level of estrogen receptors increased six-fold, an increase higher than either compound or estrogen alone.

In addition to Kulp, the Livermore research team included biomedical scientists Jennifer Montgomery, Ray Latham, Mark Knize, Felice Lightstone and Jim Felton.





CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1995 - Mercury Villager, ex condition, new tires, 90K miles, \$5K (blue book \$6,600). White w/blue interior, very clean. 925-846-9515

1992 - Ford Aerostar. 7 passenger. 150k miles. Still runs good. No Dents. As Is. 2700.00 OBO. 925-373-9540

1996 - Honda Civic DX, green with cloth interior. Well maintained, AC, CD player, great gas mileage, 115k miles. Excellent commute car. \$4500 925-679-9307

2000 - Honda Accord SE, 24K mi, AT, AC, 4 CYL, \$14,000 925-449-0463

2000 - Red Hyundai Tiburon 30K, Good condition, PWR Windows, Moon Roof, CD/Tape, Anti Theft,Leather, New Tires,\$9,800 OBO. 209-835-8205

1993 - Honda Accord, excellent condition inside and out. Burgundy w/gray interior, 84,000 miles, manual transmission, new tires. \$6,300.00. 925-447-8251

2001 - Saturn SC2 3-door. White ext./gray int. Excellent condition, 33K mi., 5-speed, ppd. maint. \$9,950. 925-485-1988

1995 - Pontiac Sunfire 94,000 miles/New sound system. Good condition. Great commuter. \$5,000.00 925-516-9877

1998 - Ford Mustang,2DR Coupe,Silver,Auto-trans.,Tinted Windows,Spoiler,CD,Auto doors-windows-alarm,\$7,900 obo. Good Condition. 925-964-0534

1994 - Ford Escort 2Dr Hatchback, White, Auto, A/C, P/S, Cruise, AM/FM Cassette, Rear Spoiler, Alloy Wheels, Good Condition \$2,500 925-525-3761

1998 - Acura 2.5TL- Black, tan leather interior, AT, Power- windows, locks, moonroof, 55K miles, one owner, maintenace records - \$17,000 209-404-1992

1993 - Ford Explorer Manual transmission, P/S, P/B. AM/FM/Cass Stereo. Runs good. \$3995/BO 925-449-8024

1990 - Mustang GT 5.0, 5-speed, 135K miles, many extras, must see. \$7,000 obo 925-455-8238

1993 - Toyota Corolla, 4D Sedan, perfect condition, 122K miles, \$3850 or negotiable. VIN:1NXAE09EXPZ051704, Tel (home): 925-961-1913

1971 - Vw 1600cc very new motor. Many custom extras. \$750.00 OBO 925-373-6990

1994 - Chrysler Concord - Auto, V6, 3.5L engine, CD, Leather interior, new tires, plus alarm. 76K miles, clean one owner. \$5270 925-443-1034

1987 - BMW 325i Convrt Bronze 309k 5-sp \$2,000 925-634-7596

1999 - Ford Explorer XLT, 62K mi, 4x4, 6 cyl, ac, ps, pw, dual power seats, leather, am/fm/cd, mnrf, roof rack, \$14,900. 510-276-0742

1998 - Honda Accord EX,V6, dark green, leather interior, fully loaded, new tires, 76,000 miles, 10,800 O.B.O 925-625-7914

1997 - Chevy Monte Carlo Z34, excellent condition. Fully loaded, 36,000 miles. \$8,600 or BO. 209-523-8020

1987 - Handicapped Equipped Ford E150,V8, 302cu, CD, Auto. Golden Boy Lift for scooter/wheelchair. New tires, good cond. \$3500. 925-443-1034

1991 - Ford Explorer Eddie Bauer, 4X4, V6, 5 Sp Manual, Fully Loaded, tow package, Premium Sound, Emeral Green/Tan, 11 yrs of TLC w/ Original Owner, \$5K OBO 510-486-8750

AUTOMOBILE ACCESSORIES

American Racing Chrome Wheels (16 inches). Looks great on a truck. Excellent Condition!! \$400/obo 925-449-4824

Jeep Cherokee retracting cargo cover \$10..plastic cargo liner \$5. 925-249-1786

Flowmaster cat-back exhaust for new style GM trucks. Like new, used only 4 months. \$250 209-365-0412

Tire snow chains-cable type. Fits P225/60R15 and related tire sizes. \$5 925-373-9224

Wolf leather hood protector. Removed from a 1997 Chevy Silverado. Asking \$40 obo. 209-480-3279

Leer camper shell from a 91i Chevy short bed pickup. Shell is in good shape except paint is peeling. \$50 OBO. 925-455-9048

(4)Stock VW Jetta 15in. alloy rims and tires off of my 2000 Jetta. Have photos to e-mail. \$100 209-545-0669

BICYCLES

Car bike rack, holds 3 bikes. \$100 new, will sell for \$35. 925-455-5736

BOATS

Sailing books, aprox. 40 books on boat maint, navigation, crusing, \$75 for all 925-447-5194

Furuno Marine radar, model 1720. 7 inch crt display, 0.25 - 16 mile range, 16 inch dia raydome \$700.00 925-455-0859

CAMERAS

Olympus E-10 Digital SLR, 4MP, accessories include filters, macro lens, battery pack, \$950 510-226-7440

ELECTRONIC EQUIPMENT

Audio patch system, 2 jack bays and plugs, \$25 925-447-5194

Sony XBR27 Color 27 inch Television. Includes extra speakers, remote, picture in picture. Used 7yrs in excellent shape. \$150 209-836-7506

Mac Clone 200 MHz 604e 17GB HD, 128 Mbyte RAM, USB, ethernet, CDburner with 15 inch mon. \$125 925-449-1464

15 in SONY Trinitron monitor - excellent condition. \$25 925-606-0755

GIVEAWAY

Small girls bike, will need tire tubes. Large pine trunks for firewood, need to be split. 925-455-5736

Brown sofabed. 925-449-0463

Two free cats to giveaway with litter-box. One is a female kitten, white and gray and fluffy. The other is black and white with short hair. 925-371-0309

Rabbit cage, wire approx 18H x 24 inches square - Also Greenhouse Window w/shelf, approx 36 x 36 x 12 inches, brown anodized Alum 925-552-6684

HOUSEHOLD

Sears Kenmore Upright (20 cubic ft)Freezer Excellent Condition, asking \$100 209-239-2781

Sofa & chair, cream color w/spring color pillows \$200.00 Large display coffee table w/ 4 magazine racks \$75.00. Great condition 925-447-8291

Bissell Big Green Deep Cleaner - 2 gallon capacity; Self-contained - no faucet hook-up; All attachments included. Excellent condition - \$50

925-447-2821

Queen size bed frame w/headboard & nightstand. Nighstand can attach to bed.Headboard & nightstand combo is 9 1/2ft. \$200 OBO 925-829-5378

Dining Table and 4 Chairs, beautiful solid oak, 42x42, expands to 42x60, excellent condition, \$400, 925-455-0836

Loveseat w/ 2 reclining seats & a rocking recliner chair. Both off-white with modern print, in excelent shape - been in storage. \$350.00/ pair. 925-855-0456

Sofa sleeper with matching loveseat. Gray/Blue color. Good condition. \$200/obo for both. 209-832-0332

Oak Entertainment Center, holds 32 inch TV, 5 shelves for components. Excellent shape, \$250 209-836-1506

Sofa, contemporary, off-white w/5 pastel color pillows (90 inches in length). Very good condition. Asking \$100.00. 925-443-4722

Corner Computer Desk-light wood with black tops and great for small room or corner\$50 OBO 925-200-4241

Two marble double sink tops, 21x92 beige swirl & 21x82 gold swirl. Each with 4 inch back splash, cabinets too. \$45 each. Douglas fur entry door \$45. 925-938-4136

Fireplace Insert: Steel w/bright brass door. Older design, not heavily used. \$200 925-443-9421

MICROWAVE, for counter top, in perfect condition. Installed a new built-in. Leave email address and I will email a pic and specs. \$65.00 or BO. 510-490-2344

White washed oak 3 piece entertainment center. Will hold 32 inch TV. Has smoked glass doors and good storage space. \$100 925-292-1249

Photocopier, Cannon PC25 personal copier. \$250. 925-648-0671

Platform double bed, 6 dwrs, no mattress, \$35. Air cleaner, new HEPA element, \$25. 925-200-9976

Queen Pine Bed.Set - Hdbrd/Ftbrd, pillowtop matt/boxsprgs,9 drawer dresser w/mirror,6 drawer chest,1 nightstand. Grt cond./miss. few knobs \$450/obo 925-634-0778

Stove, wood burning/electric, Occidental. ~1935 era. 2 ovens, 4 burners. Needs electrical update. email photo available. \$300.00 925-455-0859

Bunk Bed, double on bottom, single on top. In excellent condition and includes mattress. Natural Pine wood construction. Asking \$275.00 925-443-2827

MISCELLANEOUS

Twin bed mattress/frame/cabinet w/built-in drawers and storage space. Matching desk/drawers/bookcase. Dark wood color. \$200/obo. 209-832-0332

Whirlpool Power Bath Spa with automatic timer. \$45.00 OBO. Bread Machine - Panasonic with 13 hr timer. Like new \$50.00 OBO. 925-820-2092

Radial Arm Saw, Delta, 10 inch, 2 HP w/new carbide-tipped blade - \$85 OBO 925-552-6684

China cabinet with pecan wood finish, glass door exhibit area, and glass shelves. \$75 925-292-1249

Wood, mixed, well seasoned. 1 cord, you haul. \$100. 925-447-9344

Philodendron. Large and healthy. In hanging pot. \$20. 510-351-0969

Mens navy sportcoat. Size 38, excellent condition. Purchased from Nordstrom. \$30. 925-648-0671

Spinet piano by Winter w/bench. Excellent cond. \$650. Barcalounger

brown recliner chair. \$75. 925-443-1034

Tahitian pearl 14.5 millimeters diameter. Medium gray. Retail is \$1000. \$600 OBO 925-556-1169

MOTORCYCLES

1979 - Yamaha 100 dirt bike, 2 stroke. \$375.00 925-373-9540

MUSIC INSTRUMENTS

Violin, 1/4 size Suzuki, with bow and case, \$225, 925-455-0836

Cremona SB-3 Upright(3/4)Bass. Less than a year old-flamed maple back and sides, Spruce, Ebony. Great for Jazz or Bluegrass. 510-538-1711

PETS & SUPPLIES

Quarterhorse 10 year old red roan gelding, used in timed events, \$3,000/OBO. 925-321-1904

Eight inch pleco for sale to good home. Price negotiable. Call if you need a big bottom feeder! 925-606-6305

Pitbull puppy Colby/Bluenose charcoal/white very flashy looking female born 9/05/02 shots given \$75.00 209-982-1672

\$25 gift certificate for Bishop Ranch Veterinary Center in San Ramon for any vet services. \$15. 925-648-0671

Horses boarded. Danville west side. Access to Las Trampas and Diablo trails without trailering. Walk to Downtown. \$250/mo. 925-831-1833

RECREATION EQUIPMENT

Health Rider, good condition, \$25 925-447-5194

Snowboards for kids New 144Echos with bindings, 90-120lbs \$70. Slightly used 130Echos with boots size5 and bindings, 60-80lbs \$75. 209-765-9136

5 ft. wooden toboggan with pad and tow rope/handholds; like new. \$50 925-862-2929

SPORTS RIDER by HEALTH RIDER. Excellent condition, almost never used < 200 reps. Paid \$220 New, still have box. Sell for \$60. 925-426-6901

Downhill skis, \$20, K2 Competition skis, 190 cm, Salomon 505 bindings, 48 inch poles. Old, suitable for rock skis. 510-733-9802

RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>.

Lafayette - LaMoRinda Vanpool (also Walnut Creek stop at Rudgear Rd), reclining seats, reading lights, 7:45-4:45, \$100/mo (pretax reduction available) David 925-983-6701, ext. 2-3005

Orinda-Lafayette-Moraga - Carpool seeks 4th driver/rider. Leaves Orinda near St. Stephens and Hwy 24. Lab hours 8:10am - 5pm. 925-253-0498, ext. 2-9823

SERVICES

A+ certified tech. Will build you a new computer to your specifications, or upgrade yours. Trouble shooting, repair, software installations. 925-456-0110

Wedding Photography: over 20 yrs exp. Medium format cameras used. You keep the negatives. 925-829-1474

General yard clean up, tree removal/trimming, have references 209-541-1349

Housecleaning, dependable and expe-

rienced. Also in-house care for children, elderly, disabled. References. Call at 925-243-1622

SHARED HOUSING

Livermore - Room for rent, furnidhed \$525.00 + 1/3 utilities. Kitchrn, washer, dryer access. One mile from Lab. 925-456-5843

Livermore - furnished room for rent. Mature adult/long term preferred. Clean/quiet. \$550.00/month. Share utilities 1/3. Deposit Required. 925-449-1128

Livermore - Livermore - Two unfurnished rooms avail 1/18/03, \$500.00/mo + util + 500 deposit. Mature adults. Clean, N/S, N/P. 4 miles to lab. 209-969-0177

Danville - Share a house with a firefighter. Rarely home. Danville west side furnished on 1.4 acres. Pool, creek. Utilities paid. \$800/mo. 925-831-1833

TRUCKS & TRAILERS

1991 - Toyota Pickup w/shell, 5 spd manual trans. 150K miles. Runs good, \$2200 or best offer. 925-833-0186

1994 - Chev. S-10 Truck, LS package, 5 spd.,air concitioning, power steering,4 cylinder, 22-25 MPG, Alpine CD, 84K miles. Excellent condition. \$4,650.00. 925-754-5366

1966 - Chevy step side, 350V8, Auto, headers, dual exhast (flow masters), new brakes, tilt wheel, CD stereo, nice tires/rims \$3,000 209-599-6449

1986 - Starcraft Tent Trailor Sleeps 6. New top, cables, and axle. \$3000. 925-449-1451

VACATION RENTALS

Oceanfront condo, Solana Beach/Del Mar, Delux 2br.2ba.,tennis, pool, gated parking, fully equipped, San Diego attractions 925-443-2271

MAUI: Kihei ocean front 2bdrm/2ba condo - beautiful ocean view, white sandy beach, pools, tennis, snorkeling. Low LLNL rates. 925-846-1459

Palm Springs - --Luxury hotel resort with nicely furnished apartment and full kitchen. Near Joshua Tree National park. 925-606-5660

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, all amenities, close to all skiing, RESERVE NOW FOR HOLIDAYS/SKIING! 209-599-4644

Pinecrest - Cabin available near Dodge Ridge skiing. 3 bdrm/2 bath, fireplace w/wood, microwave, pool table, level cleared access to covered parking, \$225/wknd 925-449-5513

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

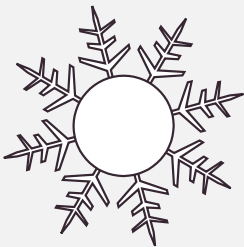
WANTED

I am a professional massage therapist looking for people to practice on that have carpal tunnel pain which may be due to impinged nerves. 510-593-0399

Manteca Stealers looking for kids u10/u11 for competative baseball tournaments practices will start Jan2003 for info please contact Rich Villafana 209-825-5222

WANTED: General Mills Box Tops for Education. Collecting for school library. Send to L. Positeri at L-728. Year-round fundraiser. Thank you. 209-576-7560

HAPPY HOLIDAYS



Happy Holidays

PHOTOS BY
SCOTT WILSON/PAO, VICTORIA BALL/IBIS
AND MICHAEL ANTHONY/IBIS

Once again groups from around the Lab provided brighter holidays for more than 500 people. Employees throughout the Lab participated in charitable gift giving, whether volunteering through the Lab's Brighter Holidays, or staging their own toy drives, such as EPD's Safety Breakfast, in which 200 people contributed four barrels of gifts to Toys for Tots. In another donation effort, proceeds from this year's B Division book sale were used to purchase toys and games for needy children.



NIF

Continued from page 1

pulse is equivalent to a one ton automobile traveling at about 20 miles per hour.

NIF uses cutting-edge construction, laser and optics technologies to create conditions of extreme temperatures and pressures in small targets. Experiments on NIF will be used as a key part of the National Nuclear Security Administration’s critical mission to maintain and certify the safety, security and reliability of the nation’s nuclear deterrent without underground nuclear testing. NIF is the only NNSA facility that can achieve fusion ignition with energy gain, which is important for understanding the performance of nuclear weapons

as well as for inertial fusion energy production for future energy security. Other experiments on NIF will advance basic understanding in areas such as materials science and astrophysics.

“This milestone is a significant step. NIF will create temperatures, pressures and densities that approach those found in an exploding nuclear weapon, which will make it an important tool in our Stockpile Stewardship Program,” said Linton Brooks, NNSA’s Acting Administrator. “I am pleased that the NIF team at Lawrence Livermore have moved this important project ahead of schedule.”

According to Laboratory Director Michael Anastasio: “This important milestone marks the transition of the NIF from a construction project

to an integrated light producing facility. We used almost all of the critical NIF systems: the beam-path with supporting utilities, laser components and optics, power conditioning system, diagnostics, and computer controls. NIF is well on its way to becoming an unequalled national scientific research venue.”

The next major milestone, scheduled for this spring, is to transport the four laser beams into the 10-meter diameter, one-million pound target chamber. The infrared light will be converted into ultraviolet light and focused on the first targets. This milestone will mark the beginning of commissioning of scientific diagnostic instruments for NIF experiments in support of the Stockpile Stewardship Program, basic science and inertial fusion energy research.

NNSA

Continued from page 1

“In keeping with President Bush’s vision, we are streamlining operations and oversight while clarifying roles and responsibilities. The new, more responsive organization will improve federal management of our nuclear weapons complex,” he said.

Secretary of Energy Spencer Abraham applauded the NNSA action, which, he noted, “implements the president’s desire to make government more efficient and responsive and to focus on clear lines of accountability.”

While the entire organizational structure is changing, the NNSA field organization will see the most dramatic change. Currently, the site offices that oversee NNSA’s contractor operations report to headquarters through three oper-

ations offices in Oakland, Las Vegas and Albuquerque, N.M. Beginning today, all site offices will report directly to the NNSA administrator through the principal deputy. The operations office system will be eliminated.

An NNSA service center, providing procurement, human resources and other support services to the site offices, will be established using the expertise of the former operations offices. The NNSA service center will be located in Albuquerque. Consolidation of personnel will be completed by the end of FY04, after which the Oakland office will close and the Nevada office will be reduced in size and concentrate on management of the Nevada Test Site.

Overall, approximately 20 percent will be trimmed from NNSA’s federal workforce at headquarters and in the field by the end of FY04, with headquarters taking a 30 percent

cut. The reduction will be accomplished through managed attrition. Security forces and the Navy Nuclear Propulsion program will not be affected by the staff reductions.

“We have worked hard this year to make sure our reorganization is done right. We will manage the reductions in a way that is fair to our outstanding people, while ensuring that the NNSA of the future will have a world-class business environment that eliminates duplication and micromanagement and provides more effective federal oversight,” Brooks said.

NNSA is a semi-autonomous agency that carries out the national security responsibilities of the Department of Energy. It maintains the U.S. nuclear weapons stockpile, promotes international nuclear non-proliferation, and provides the U.S. Navy with safe and effective nuclear propulsion.

BSL

Continued from page 1

for review at the following locations:

DOE Energy Information Center
Oakland Federal Building

First Floor, North Tower
Room 180N, 1301 Clay St.
Oakland, Calif.
(510) 637-1812

Lawrence Livermore National Laboratory
Public Reading Room

Trailer 6525, Visitor Discovery Center
East Gate Entrance, Greenville Rd., Livermore
(925) 424-4026

Livermore Public Library
1000 South Livermore Ave.
Livermore, Calif.

Over the top for
new security
facility

The completion of structural steel work on the International Security Research Facility was celebrated in a brief ceremony in early December. Adorned with a Christmas tree, an American flag and bearing the signature of dignitaries in attendance, the last steel beam was hoisted into place. Construction is scheduled for completion in late 2003. The facility will be occupied in 2004.



JULIE KORHUMMEL/NEWSLINE



Newsline
UC-LLNL
PO Box 808, L-797
Livermore, CA 94551-0808